

## ABSTRACT OF THE DISCLOSURE

A sound image localization apparatus that can support an input signal of plurality of sampling frequencies while being small in circuitry size is provided.

A basic sound image localizer 12 processes a signal within a frequency band [0kHz to 24kHz] for sound image localization. A sound image localizer 13a processes a signal within a frequency band [24kHz to 48kHz] for sound image localization. A sound image localizer 13b processes a signal within a frequency band [48kHz to 96kHz] for sound image localization. An input sampling frequency detector 11 detects a sampling frequency of an input signal. A frequency band decomposing part 14 decomposes the input signal into the above frequency bands. Sound image localization is carried out on the input signal only by the basic sound image localizer 12 when the detected sampling frequency is 48kHz; by the basic sound image localizer 12 and the sound image localizer 13a when 96kHz; and by the basic sound image localizer 12 and the sound image localizers 13a and 13b when 192kHz. Frequency band reconstructing parts 15a and 15b each reconstruct the signals after sound image localization.